CLAIMS

1. An interlayer for a laminated glass

which comprises a thermoplastic resin sheet provided with embossments comprising concave portions and convex portions on both sides thereof,

a pitch of embossments on one side being different from a pitch of embossments on the other side.

The interlayer for a laminated glass according to Claim
 1,

wherein concave portions on at least one side are continual.

The interlayer for a laminated glass according to Claim
 or 2,

wherein bottoms of concave portions on at least one side are continual.

4. The interlayer for a laminated glass according to any one of Claims 1 to 3,

wherein the pitch (L1) of embossments on one side and the pitch (L2) of embossments on the other side satisfy the relation of (L1) < (L2), and

- the proportion of existence of a convex portion on the other side within the range (L1 x 0.25) of before and after a position of a convex portion on one side is not more than 50% of the number of convex portions on one side.
- 5. The interlayer for a laminated glass according to any one of Claims 1 to 4,

wherein concave portions at least one side are provided in a linear pattern.

An interlayer for a laminated glass

which comprises a thermoplastic resin sheet provided with embossments comprising concave portions and convex portions on both sides thereof,

said concave portions on at least one side having a trough-like geometry with a continual bottom while said convex portion on the same side having a plateau-forming top surface.

- The interlayer for a laminated glass according to Claim
 6,
- wherein fine concave and convex portions are provided on the plateau-forming top surface of the convex portion.
 - 8. The interlayer for a laminated glass according to Claim 7,
- wherein a surface roughness Ra of the plateau-forming top surface is not less than 2.5 μm .
 - 9. The interlayer for a laminated glass according to Claim 7 or 8,
- wherein the surface roughness Ra of the plateau-forming top surface is not less than 3.0 μm .
 - 10. The interlayer for a laminated glass according to any one of Claims 6 to 9,
- wherein a width of the plateau-forming top surface is not less than 20% of a pitch of convex portions.
 - 11. The interlayer for a laminated glass according to any one of Claims 6 to 10,
- wherein the width of the plateau-forming top surface is constant.
 - 12. The interlayer for a laminated glass according to any one of Claims 6 to 11,
- wherein the width of the plateau-forming top surface is

random.

13. An interlayer for a laminated glass

which comprises a thermoplastic resin sheet provided with embossments comprising concave portions and convex portions on both sides thereof,

said concave portions on at least one side having a trough-like geometry, and

segmenting walls being formed in said trough-like 10 geometry.

14. The interlayer for a laminated glass according to Claim 13,

wherein a height of the segmenting wall is smaller than a depth of the trough.

15. The interlayer for a laminated glass according to Claim 12 or 14,

wherein segmenting walls are arranged at equal intervals.

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16. An interlayer for a laminated glass

which comprises a thermoplastic resin sheet provided with embossments comprising concave portions and convex portions on both sides thereof,

said concave portions on at least one side having a trough-like geometry and being not on one and the same level, and

a ratio of a surface roughness (Rz) and a surface roughness (Rzv) of a negative model being Rzv/Rz \geq 0.25 on at least one side.

17. The interlayer for a laminated glass according to Claim 16,

wherein troughs are provided in a linear configuration.

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18. The interlayer for a laminated glass according to Claim 16

wherein troughs are provided in a grid configuration.

5 19. An interlayer for a laminated glass

which comprises a thermoplastic resin sheet provided with embossments comprising concave portions and convex portions on both sides thereof,

said concave portions on at least one side having a continual trough-like geometry, and

said convex portion on the same side having segmenting troughs while a bottom of said segmenting trough being not on one and the same level as a bottom of the continual trough-like geometry of said concave portion.

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20. The interlayer for a laminated glass according to Claim 19,

wherein the trough-like geometry of the concave portion and segmenting troughs of said convex portion are provided in a grid configuration.

21. The interlayer for a laminated glass according to Claim 19,

wherein the trough-like geometries of the concave portion 25 and segmenting troughs of said convex portion are provided in a random configuration.

- 22. The interlayer for a laminated glass according to any one of Claims 19 to 21,
- wherein a depth of segmenting troughs of the convex portion are uniform.
 - 23. The interlayer for a laminated glass according to any one of Claims 19 to 21,
- wherein a depth of segmenting troughs of the convex portion

are random.

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24. An interlayer for a laminated glass

which comprises a thermoplastic resin sheet provided with embossments comprising concave portions and convex portions on both sides thereof,

at least one side being provided with concave troughs, and

an angle between said concave trough and a direction of extrusion of said thermoplastic resin sheet being less than 25°.

25. An interlayer for a laminated glass

which comprises a thermoplastic resin sheet provided with embossments comprising concave portions and convex portions on both sides thereof,

said concave portions on at least one side having a trough-like geometry, and

said trough-like geometry being constant in sectional area while having a depth distribution of troughs having a depth of not less than 5% of the maximum trough depth.

26. The interlayer for a laminated glass according to Claim 25,

wherein troughs having the depth of not less than 5% of the maximum trough depth are provided at a pitch of not more than 10 mm.

- 27. The interlayer for a laminated glass according to Claim 25 or 26,
- wherein the trough-like geometry is provided in parallel with the direction of flow of the interlayer for a laminated glass.
- 28. The interlayer for a laminated glass according to any one of Claims 1 to 23 and 25 to 27,

wherein the thermoplastic resin sheet is a plasticized polyvinyl acetal resin sheet.

29. A laminated glass

obtainable by interposing the interlayer for a laminated glass according to any one of Claims 1 to 23 and 25 to 28 between at least one pair of glass sheets and consolidating them into an integral unit.